



041404

22783 U.S. PTO

Rev 03/05/04

**UTILITY
PATENT APPLICATION
TRANSMITTAL**

Attorney Docket No.: S-102,389

First Inventor or Application Identifier: Yusheng Zhao et al.

Title: BULK SUPERHARD B-C-N NANOCOMPOSITE COMPACT AND METHOD FOR
PREPARING THEREOF

Express Mail Label No.: ET459332525US

APPLICATION ELEMENTS

ADDRESS TO: Commissioner for Patents
Mail Stop Patent Application
PO Box 1450
Alexandria, VA 22313-1450

1. ☒ * Fee Transmittal Form (e.g. PTO/SB/17)
(submit an original and a duplicate for fee processing)
2. ☒ Applicant claims small entity status.
See 37 CFR 1.27.
3. ☒ Specification [Total Pages: 20]
☒ Descriptive title of the Invention
☐ Cross References to Related Applications
☒ Statement Regarding Fed sponsored R&D
☐ Reference to sequence listing, a table
or a computer program listing appendix
☒ Background of the Invention
☒ Brief Description of the Drawings (if filed)
☒ Detailed Description
☒ Claim(s)
☒ Abstract of the Disclosure
4. ☒ Drawings(s) (35 U.S.C. 113) [Total Sheets: 8]
☒ Formal ☐ Informal
5. ☒ Declaration & Power of Attorney
[Total Pages: 2]
a. ☐ Newly executed (original or copy)
b. ☒ Copy from a prior application (37 C.F.R. § 63(d)
(for continuation/divisional with Box 16 completed)
c. ☐ **DELETION OF INVENTOR(S)**
Signed statement attached deleting
inventor(s) named in the prior application,
see 37 C.F.R. §§ 1.63(d)(2) and 1.33 (b).
6. ☐ Application Data Sheet. See 37 CFR 1.76

7. ☐ CD-ROM or CD-R in duplicate, large table or
Computer Program (Appendix)
8. Nucleotide and/or Amino Acid Sequence Submission
(if applicable, all necessary)
a. ☐ Computer Readable Form (CRF)
b. Specification Sequence Listing on:
i. ☐ CD-ROM or CD-R (2 copies); or
ii. ☐ paper
c. ☐ Statement verifying identity of above copies

ACCOMPANYING APPLICATION PARTS

9. ☐ Assignment Papers (cover sheet & document(s))
10. ☐ 37 C.F.R. § 3.73(b) Statement ☐ Power of
(when there is an assignee) Attorney
11. ☐ English Translation Document (if applicable)
12. ☒ Information Disclosure ☒ Copies of IDS
Statement (IDS)/PTO-1449 Citations
13. ☒ Preliminary Amendment
14. ☒ Return Receipt Postcard (MPEP 503)
(should be specifically itemized)
15. ☐ Certified Copy of Priority Document(s)
(if foreign priority is claimed)
16. ☐ Nonpublication Request and Certification Under 35 U.S.C.
122(b)(2)(B)(i). Applicant must attach form PTO/SB/35 or its
equivalent
17. ☐ Other:

16. If a CONTINUING APPLICATION, check appropriate box, and supply the requisite information below and in the first sentence of the
specification following the title, or in an Application Data Sheet under 37 CFR 1.76:

☐ Continuation ☒ Divisional ☐ Continuation-in-part (CIP) of prior application S.N. 10/190,156

Prior application information: Examiner: Archene A. Turner Group/Art Unit: 1775

For CONTINUATION or DIVISIONAL APPS only: The entire disclosure of the prior application, from which an oath or declaration is supplied under Box 5b, is
considered a part of the disclosure of the accompanying continuation or divisional application and is hereby incorporated by reference. The incorporation can
only be relied upon when a portion has been inadvertently omitted from the submitted application parts.

16. CORRESPONDENCE ADDRESS

☒ Customer Number 35068 OR ☐ Correspondence Address Below

35068

Name: Samuel L. Borkowsky
Address: Los Alamos National Laboratory, LC/IP, MS A187
City: Los Alamos State: New Mexico Zip Code: 87545
Country: United States Telephone: Fax: (505) 665-4424

Name: Samuel L. Borkowsky Registration No.: 42,346

Signature: *Samuel L. Borkowsky* Date: April 14, 2004

22154 U.S. PTO
10/824691

041404

FEE TRANSMITTAL				Complete If Known	
For FY 2004					
<small>Patent fees are subject to annual revision</small>					
<input type="checkbox"/> Applicant claims small entity status. See 37 CFR 1.27				Application Number:	
				Filing Date:	
				First Named Inventor: Yusheng Zhao et al.	
				Examiner Name:	
				Group/Art Unit:	
TOTAL AMOUNT OF PAYMENT: \$				Attorney Docket No.: S-102,389	

METHOD OF PAYMENT (check all that apply)	FEE CALCULATION (continued)																																																																																																																																																																																																						
<p>1. <input checked="" type="checkbox"/> The commissioner is hereby authorized to charge indicated fees and credit any over payments to: Deposit Account Number: 12-2150 Deposit Account Name: Los Alamos National Laboratory</p> <p><input checked="" type="checkbox"/> Charge Any Additional Fee Required Under 37 C.F.R. 1.16 and 1.17</p>	<p>3. ADDITIONAL FEES</p> <table style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: left;">Large Entity</th> <th style="text-align: left;">Small Entity</th> <th style="text-align: left;">Fee Code</th> <th style="text-align: left;">Fee (\$)</th> <th style="text-align: left;">Fee Description</th> <th style="text-align: right;">Fee Paid</th> </tr> </thead> <tbody> <tr> <td>1051</td> <td>2051</td> <td>\$130</td> <td>\$65</td> <td>Surcharge – late filing fee or oath</td> <td></td> </tr> <tr> <td>1052</td> <td>2052</td> <td>\$50</td> <td>\$25</td> <td>Surcharge – late provisional filing fee or cover sheet</td> <td></td> </tr> <tr> <td>1812</td> <td>2520</td> <td>\$2,520</td> <td>\$2,520</td> <td>For filing a request for reexamination</td> <td></td> </tr> <tr> <td>1251</td> <td>2251</td> <td>\$110</td> <td>\$55</td> <td>Extension for reply within first month</td> <td></td> </tr> <tr> <td>1252</td> <td>2252</td> <td>\$420</td> <td>\$210</td> <td>Extension for reply within second month</td> <td></td> </tr> <tr> <td>1253</td> <td>2253</td> <td>\$950</td> <td>\$475</td> <td>Extension for reply within third month</td> <td></td> </tr> <tr> <td>1254</td> <td>2254</td> <td>\$1,480</td> <td>\$740</td> <td>Extension for reply within fourth month</td> <td></td> </tr> <tr> <td>1255</td> <td>2255</td> <td>\$2,010</td> <td>\$1,005</td> <td>Extension for reply within fifth month</td> <td></td> </tr> <tr> <td>1401</td> <td>2401</td> <td>\$330</td> <td>\$165</td> <td>Notice of Appeal</td> <td></td> </tr> <tr> <td>1402</td> <td>2402</td> <td>\$330</td> <td>\$165</td> <td>Filing a brief in support of an appeal</td> <td></td> </tr> <tr> <td>1403</td> <td>2403</td> <td>\$290</td> <td>\$145</td> <td>Request for oral hearing</td> <td></td> </tr> <tr> <td>1452</td> <td>2452</td> <td>\$110</td> <td>\$55</td> <td>Petition to revive – unavoidable</td> <td></td> </tr> <tr> <td>1814</td> <td>2814</td> <td>\$110</td> <td>\$55</td> <td>Terminal Disclaimer</td> <td></td> </tr> <tr> <td>1453</td> <td>2453</td> <td>\$1,330</td> <td>\$665</td> <td>Petition to revive – unintentional</td> <td></td> </tr> <tr> <td>1460</td> <td>1460</td> <td>\$130</td> <td>\$130</td> <td>Petitions to the Commissioner</td> <td></td> </tr> <tr> <td>1806</td> <td>1806</td> <td>\$180</td> <td>\$180</td> <td>Submission of Information Disclosure Statement</td> <td></td> </tr> <tr> <td>1809</td> <td>2809</td> <td>\$770</td> <td>\$385</td> <td>Filing a submission after final rejection (37 CFR 1.129 (a))</td> <td></td> </tr> <tr> <td>1810</td> <td>2810</td> <td>\$770</td> <td>\$385</td> <td>For each additional invention to be examined (37 CFR 1.129(b))</td> <td></td> </tr> <tr> <td>1811</td> <td>1811</td> <td>\$100</td> <td>\$100</td> <td>Certificate of Correction</td> <td></td> </tr> <tr> <td>1504</td> <td>1504</td> <td>\$300</td> <td>\$300</td> <td>Publication fee for early, voluntary, or normal publication</td> <td></td> </tr> <tr> <td>1801</td> <td>2801</td> <td>\$770</td> <td>\$385</td> <td>Request for Continued Examination (RCE)</td> <td></td> </tr> <tr> <td colspan="6" style="padding: 5px;">Other fee (specify) _____</td> </tr> <tr> <td colspan="5" style="text-align: right; padding: 5px;">SUBTOTAL (3)</td> <td style="text-align: right; padding: 5px;">\$-0-</td> </tr> <tr> <td colspan="6" style="padding: 5px;">Reduced by Basic Filing Fee Paid</td> </tr> <tr> <td colspan="5" style="text-align: right; padding: 5px;">SUBTOTAL FROM 1</td> <td style="text-align: right; padding: 5px;">\$385.00</td> </tr> <tr> <td colspan="5" style="text-align: right; padding: 5px;">SUBTOTAL FROM 2</td> <td style="text-align: right; padding: 5px;">18.00</td> </tr> <tr> <td colspan="5" style="text-align: right; padding: 5px;">SUBTOTAL FROM 3</td> <td style="text-align: right; padding: 5px;">\$-0-</td> </tr> <tr> <td colspan="5" style="text-align: right; padding: 5px;">TOTAL AMOUNT OF PAYMENT</td> <td style="text-align: right; padding: 5px;">\$403.00</td> </tr> </tbody> </table> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th colspan="4" style="text-align: center; padding: 5px;">SUBMITTED BY</th> <th colspan="2" style="text-align: center; padding: 5px;">Complete (if applicable)</th> </tr> </thead> <tbody> <tr> <td style="width: 15%; padding: 5px;">Printed Name:</td> <td colspan="3" style="padding: 5px;">Samuel L. 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No.</td> <td style="padding: 5px;">42,346</td> </tr> <tr> <td style="padding: 5px;">Signature:</td> <td colspan="3" style="padding: 5px;"></td> <td style="padding: 5px;">Date:</td> <td style="padding: 5px;">April 14, 2004</td> </tr> <tr> <td></td> <td colspan="3"></td> <td style="padding: 5px;">Telephone</td> <td style="padding: 5px;">665-3111</td> </tr> </tbody> </table>	Large Entity	Small Entity	Fee Code	Fee (\$)	Fee Description	Fee Paid	1051	2051	\$130	\$65	Surcharge – late filing fee or oath		1052	2052	\$50	\$25	Surcharge – late provisional filing fee or cover sheet		1812	2520	\$2,520	\$2,520	For filing a request for reexamination		1251	2251	\$110	\$55	Extension for reply within first month		1252	2252	\$420	\$210	Extension for reply within second month		1253	2253	\$950	\$475	Extension for reply within third month		1254	2254	\$1,480	\$740	Extension for reply within fourth month		1255	2255	\$2,010	\$1,005	Extension for reply within fifth month		1401	2401	\$330	\$165	Notice of Appeal		1402	2402	\$330	\$165	Filing a brief in support of an appeal		1403	2403	\$290	\$145	Request for oral hearing		1452	2452	\$110	\$55	Petition to revive – unavoidable		1814	2814	\$110	\$55	Terminal Disclaimer		1453	2453	\$1,330	\$665	Petition to revive – unintentional		1460	1460	\$130	\$130	Petitions to the Commissioner		1806	1806	\$180	\$180	Submission of Information Disclosure Statement		1809	2809	\$770	\$385	Filing a submission after final rejection (37 CFR 1.129 (a))		1810	2810	\$770	\$385	For each additional invention to be examined (37 CFR 1.129(b))		1811	1811	\$100	\$100	Certificate of Correction		1504	1504	\$300	\$300	Publication fee for early, voluntary, or normal publication		1801	2801	\$770	\$385	Request for Continued Examination (RCE)		Other fee (specify) _____						SUBTOTAL (3)					\$-0-	Reduced by Basic Filing Fee Paid						SUBTOTAL FROM 1					\$385.00	SUBTOTAL FROM 2					18.00	SUBTOTAL FROM 3					\$-0-	TOTAL AMOUNT OF PAYMENT					\$403.00	SUBMITTED BY				Complete (if applicable)		Printed Name:	Samuel L. 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